

ABSTRACT

Method and apparatus for drilling a directional or horizontal wellbore in a hydrocarbon formation using concentric coiled tubing drill string having an inner
5 coiled tubing string and an outer coiled tubing string defining an annulus there between. A bottomhole assembly comprising a directional drilling means is provided at the lower end of the concentric coiled tubing drill string for reverse circulation drilling. Directional drilling means comprises a reciprocating air hammer and a drill
10 bit, a positive displacement motor and a reverse circulating drill bit, or a reverse circulating mud motor and a rotary drill bit, and a bent sub or housing. Drilling medium is delivered through the annulus or inner coiled tubing string for operating the directional drilling means to form the directional or horizontal wellbore. Exhaust
drilling medium comprising drilling medium, drilling cuttings and hydrocarbons are removed from the wellbore by extraction through the other of the annulus or inner
15 coiled tubing string.